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Thank you for purchasing this product. Please read these operating instructions carefully in order to use the digital video camera correctly. Keep the instructions in a safe place after reading so that you can refer to them later.

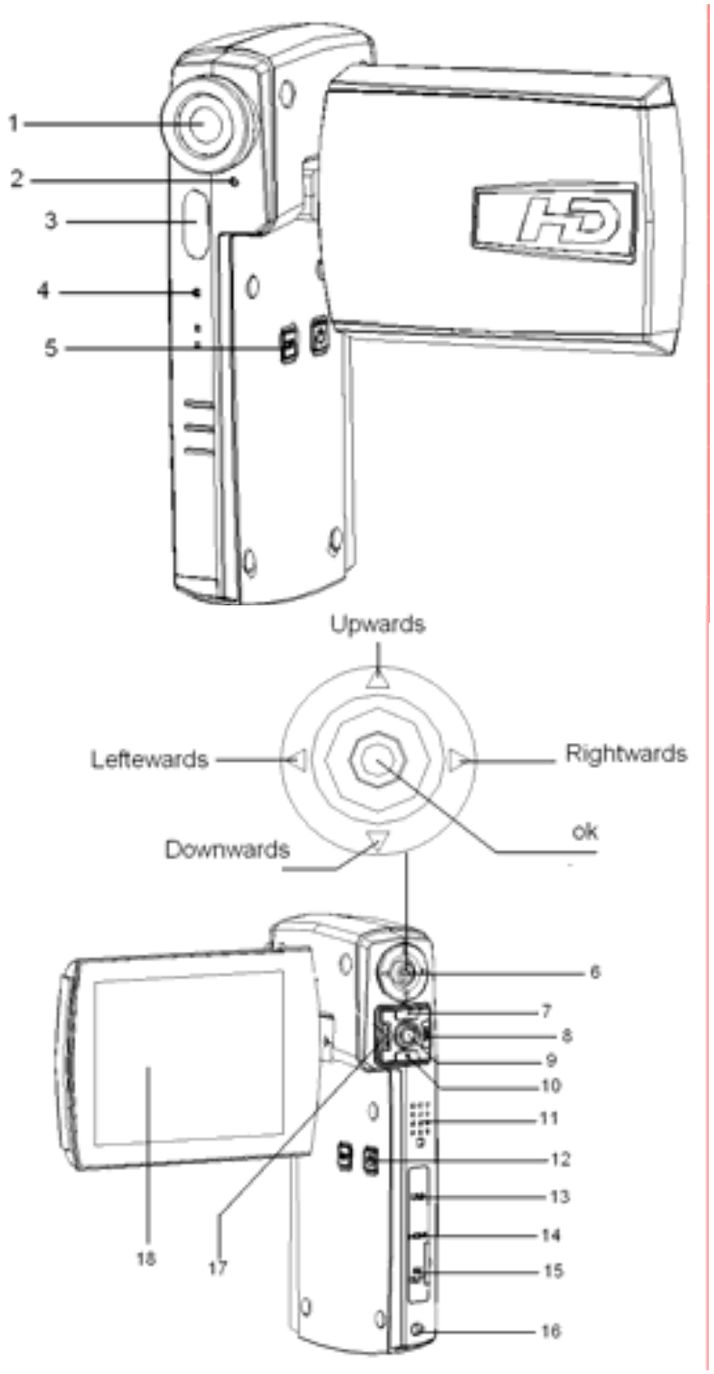
Precautions

Before using the camcorder, please ensure that you read and understand the safety precautions described below.

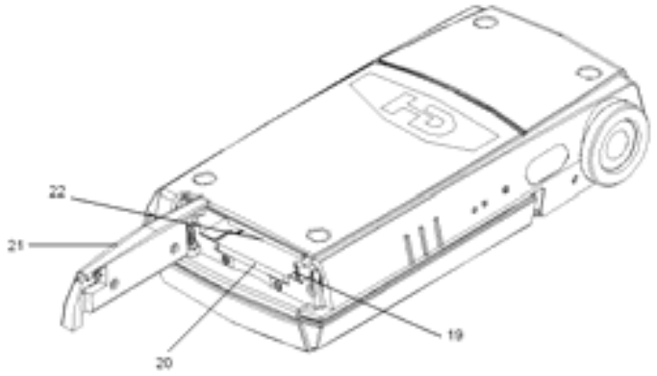
- Do not try to open the case of the camcorder or attempt to modify this camcorder in any way. Maintenance and repairs should be carried out only by authorized service providers.
- Keep the camcorder away from water and other liquids. Do not use the camcorder with wet hands. Never use the camcorder in the rain or snow. Moisture creates the danger of electric shock.
- Use only the recommended power accessories. Use of power sources not expressly recommended for this equipment may lead to overheating, distortion of the equipment, fire, electrical shock or other hazards.

1. Parts of the camcorder

1. Configuration & Installation



1	Lens
2	Self-Timer Lamp
3	Flash Lamp
4	Microphone
5	Display Button
▲	Upwards
◄	Leftwards
►	Rightwards
▼	Downwards
⊙	OK
6	Joystick
7	T / Zoom in Button
8	Menu Button
9	Shot Button
10	W / Zoom out Button
11	Speaker
12	Power Button
13	USB Jack
14	HDMI Jack
15	AV out
16	Strap Mount
17	Mode Button
18	LCD Monitor

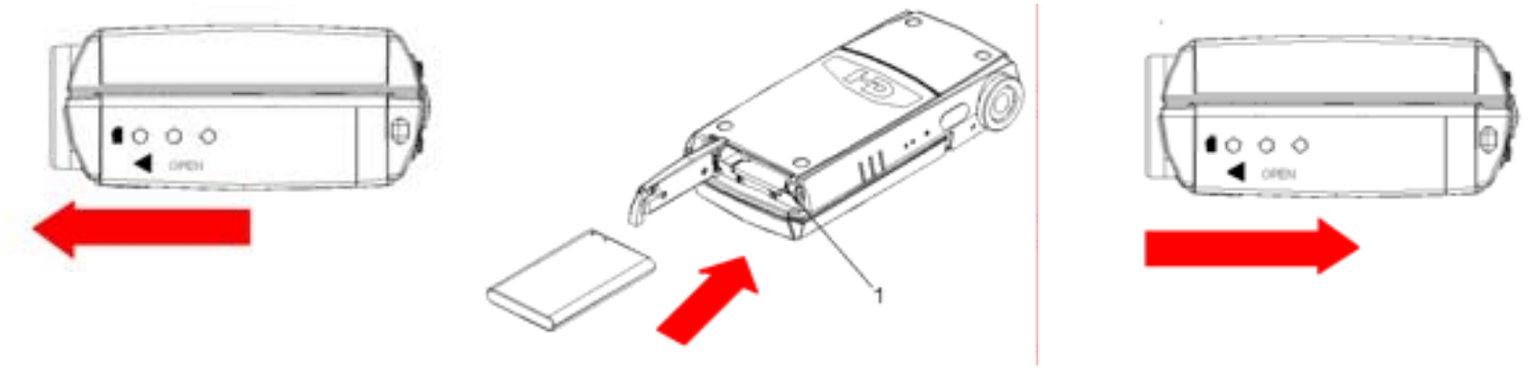


19	Battery Holder
20	SD Card Slot
21	Battery & SD Card Door
22	Battery Room

2. Preparing for using

Installing the Battery

1. Slide the battery cover open as illustrated.
2. Place the accessory lithium-ion battery into the compartment. Note that the metallic contacts must be aligned with the contacts in the compartment.
3. After the battery is properly installed, replace the battery cover.



Charging the battery

Please charge the battery at least 8 hours for first time use.

1. Connect one end of the supplied USB cable to the USB port of the camcorder and the other end to a powered PC. Make sure the camcorder is powered off.
2. The charging LED turns red and the charge starts.
3. When the charging is interrupted or the battery pack is fully charged,

the charging LED will turn off.

Inserting the Memory Card

This camcorder has an internal memory, it can only record a few pictures or movie clips. If you want record more you have to use a SD or MMC card. Turn off the camcorder before inserting or removing the memory card. Be sure to orient the card correctly when inserting it. Never try to force the memory card into the slot when you feel resistance. The memory card has a write protect switch, which used to protect data from accidental deletion. Therefore, whenever you want to record, format or delete files in the SD card, disable the write protection beforehand.

1. Turn off the camcorder.
2. Slide the battery cover and then you will see the SD card slot.
3. Insert the memory card as illustrated.
4. Close the battery cover.

- **To release the memory card press the edge of the card gently.**

Format the memory card

It is important to format the memory card when it is the first time you use this camcorder. All data will be deleted including protected files. Be sure to download important files to your computer before formatting.

1: Turn the power on, and set the camcorder to the Setup Menu.(See the details on 23)

2: Push the joystick upward or downward to select **[Format]** then push the joystick rightward to launch the submenu.

3: Push the joystick upward or downward to select the item [YES] and then press the **OK** button to erase all data.

Setting the Language

When using the camcorder for the first time after purchasing it, be sure to choose a language and set the date & time before using the camcorder.

1: Turn the power on, and set the camcorder to the Setup Menu.(See the details on 23)

2: Push the joystick upward or downward to select **[Language]** then move the joystick rightward to launch the submenu.

3: Push the joystick upward or downward to select the desired language and then press the **OK** button to confirm the setting.

4: Press the **MENU** button to close the menu.

Setting the date and time

1: Turn the power on, and set the camcorder to the Setup Menu. (See the details on 23)

2: Push the joystick upward or downward to select [**Date/Time]** then push the joystick rightward to launch the submenu: Date Format, Date Setup.

3: Select a date format by using the joystick. And then select [Date Setup].

4: Push the joystick upward or downward to change the highlighted value. Push the joystick leftward or rightward to move the cursor between settings.

5: Press the **OK** button to confirm the setting.

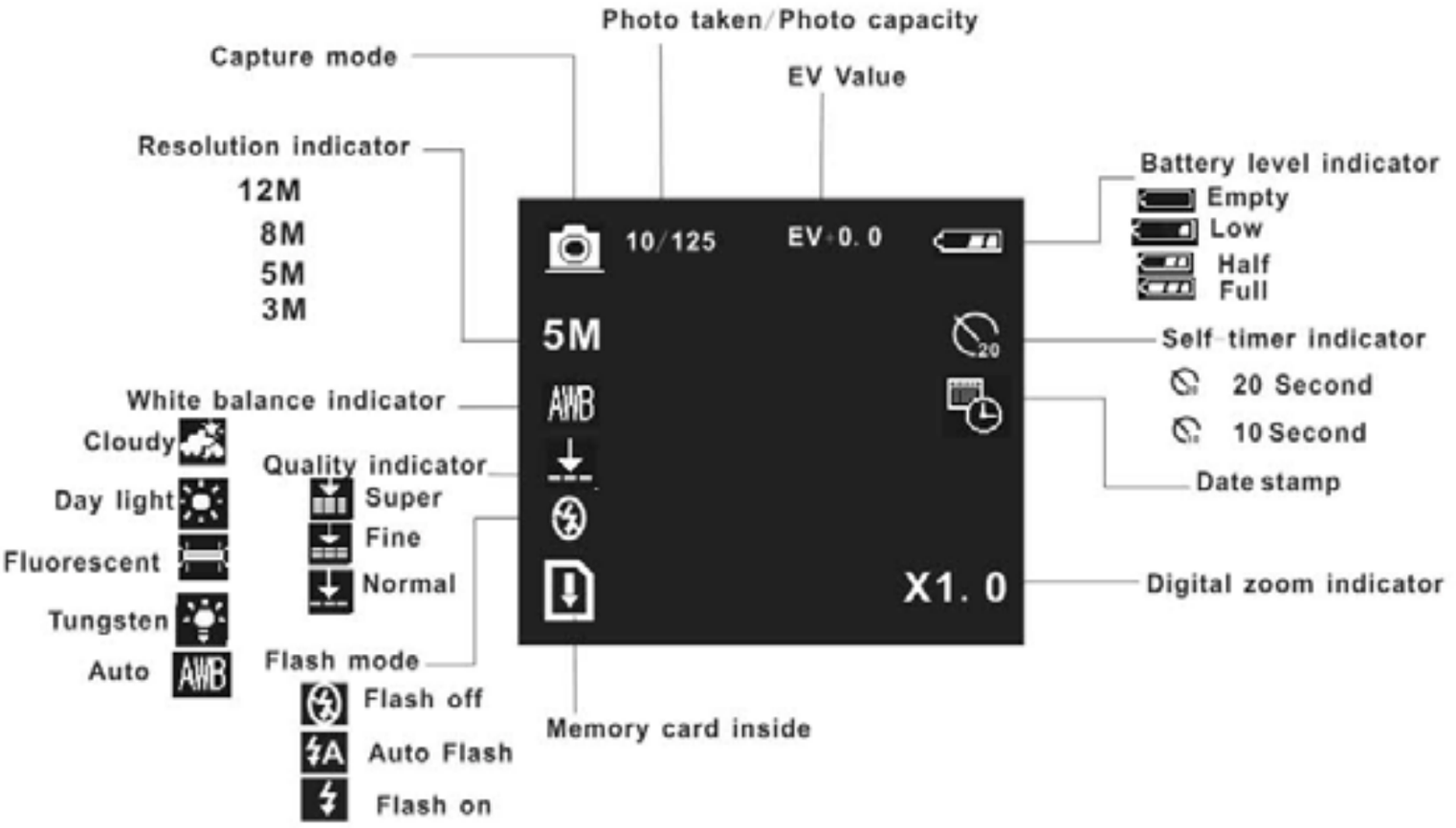
6: Press the **MENU** button to close the menu.

- **The date and time can be only added to still images by setting the**

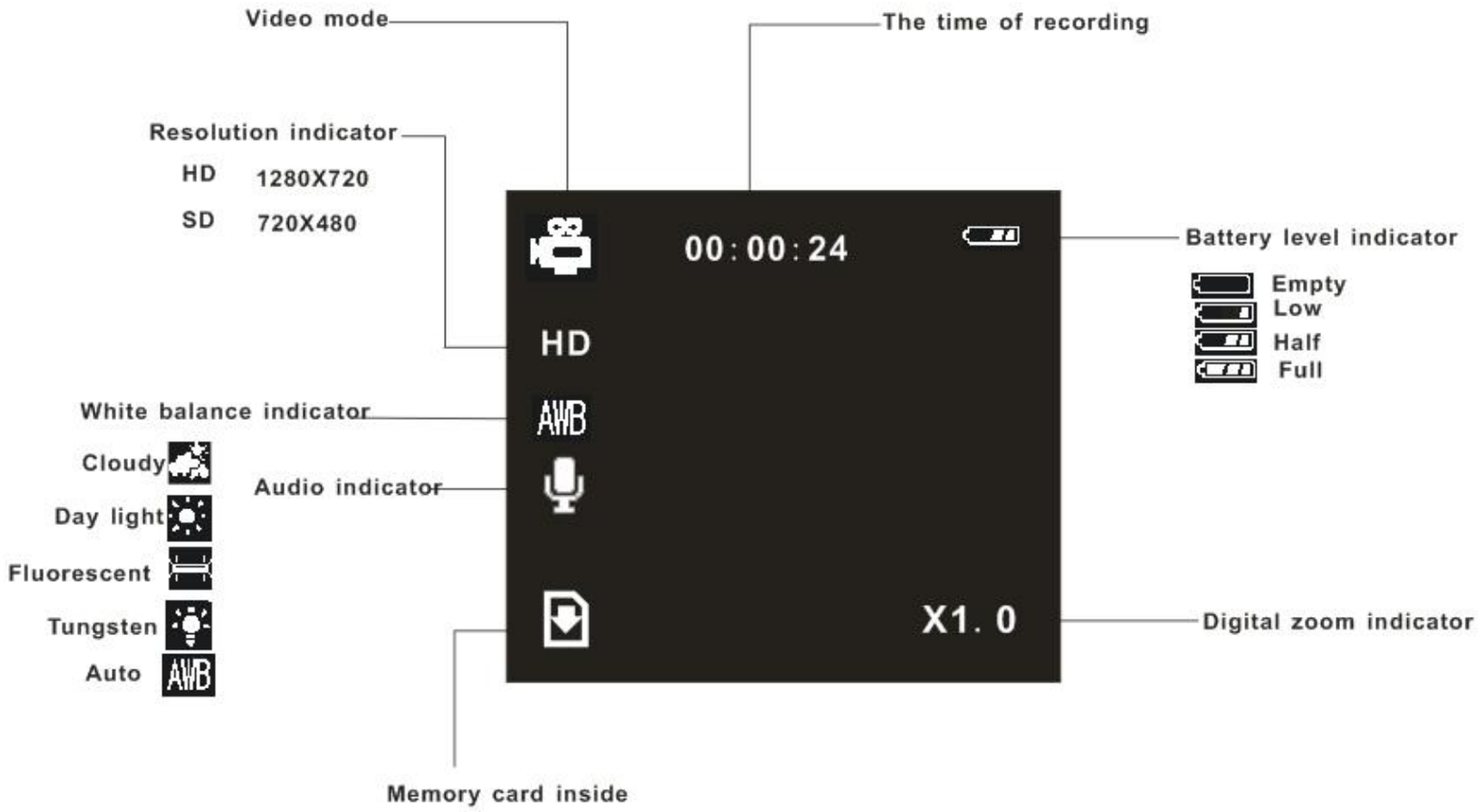
function [Date Stamp] in capture menu.

Monitor screen display

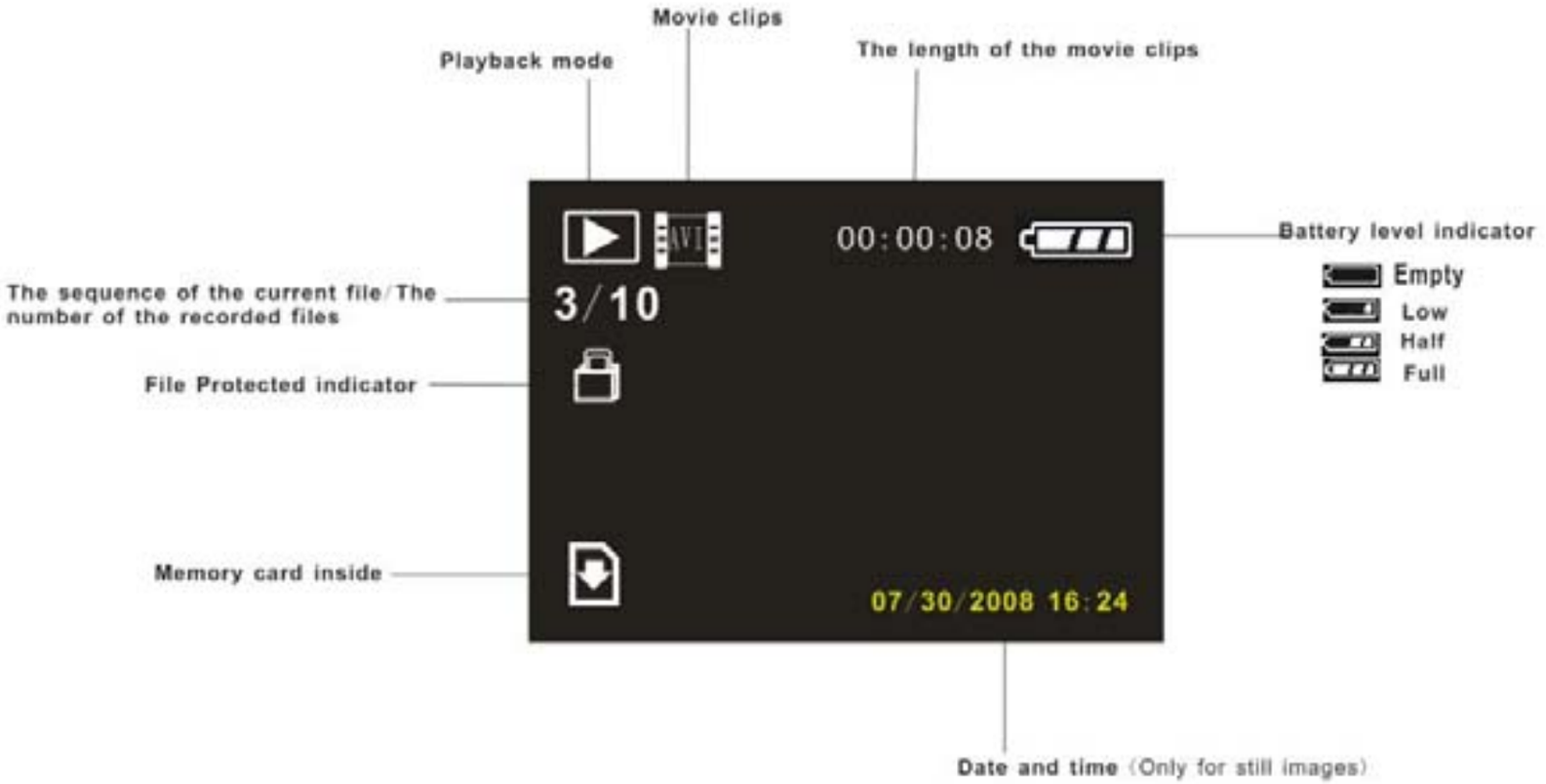
Capture



Video record mode



Playback mode



3. Using this camcorder

Turning the Camcorder On and Off

1. Open the LCD panel. Press the **POWER** button to turn on the camcorder.
2. Press the **POWER** button again to turn the camcorder off.

To save battery power, the LCD monitor automatically turns off 30 seconds after the last control accessed (factory-preset setting). Press any button other than the power button to turn on the LCD monitor. After the power saving function has been active for the set time, the power will turn off completely. Press the Power button to power the camera back on. You can change the power-off time by setting the function [Auto off] in the Setup menu.

Change the record mode

There are three record modes in this camcorder.

1: Press the **POWER** button to turn on the camcorder。

2: Press the **MODE** button to change the mode. Each time the MODE button is pressed the mode icon is changed.

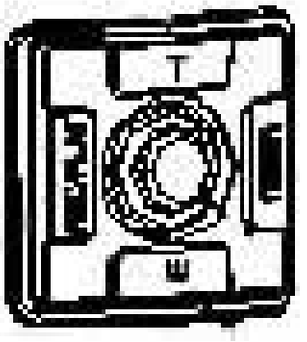
Display	Title	Description
	Capture mode	For taking still photos.
	Video mode	For recording movie clips.
	Audio mode	For recording audio files.

• You can quickly switch the camcorder to video mode or playback mode by using the video/playback switch. Push the video/playback switch downward to set the camcorder to playback mode **and push it upward to set it to video mode.**

Recording a video clip

1: Turn on the camcorder and set the camcorder to video record mode ( ).

2: Press the **SHUTTER** button to start recording. Press the **SHUTTER** again to end the recording. If the memory is full the video camera will stop recording automatically.

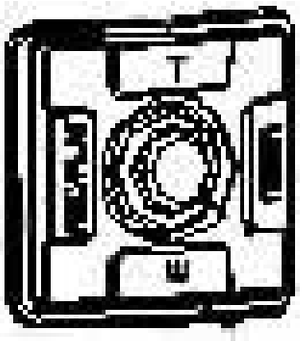


3: You can press T button or W button to adjust the focus. When the picture is enlarged press the SHUTTER button to lock the zoom ratio and end the recording.

- **On the upper of the LCD monitor displays the recorded time.**

Taking still images

1. Turn on the camcorder.
2. Press the **MODE** button to set the camcorder to capture mode, the icon 📷 appears on the LCD screen.



3. Adjust the focus: press T button or W button to adjust the focus.
4. Hold the camcorder steady and then press the **SHUTTER** button completely down to take a picture.

- **Automatically the number displayed on the**

screen is increased by one. For example, if the screen displays 3/20 when the camera is powered on, after one photo has been captured, 4/20 will appear. If the memory is full, “Memory Full “ will appear on screen.

- **Make sure that your fingers do not cover the lens.**

Using the Self-timer

Use the self-timer to set a delay from the time the shutter button is pressed to the time the image is shot.

1: Turn the power on, and set the camcorder to the Capture mode.

2: Press the **MENU** button to display the capture menu.

3: Using the joystick to select the item [Self Timer]. And move the joystick rightward to launch the submenu:

Disable: Don’t use self-timer.

10 Seconds: The shutter release will delay for 10 seconds.

20 Seconds: The shutter release will delay for 20 seconds.

4: Move the joystick upward or downward to select the self timer.

5: Press the **OK** button to confirm the setting, and then press the **MENU** button to close the menu.

6: Press the **SHUTTER** button to take picture.

Using the Flash

The flash is not only for taking pictures when there is insufficient light, but also for when the subject is in shade or with backlight conditions. Pressing the flash button cycles your camera through the various flash modes. The flash will not activate during continuous shooting or movie recording.

1: Set the camcorder to the Capture mode.

2: Press the **FLASH/DELETE** button to change the flash mode.
Each time the flash button is pressed, the flash icon changes.

	Auto: Automatically turn on/of
	Flash on: Force on the flash
	Flash off: Force off the flash

3: Press the **SHUTTER** button to take a picture.

- **When the battery level is low the flash strobe will not work.**
- **The LCD screen is black when the flash is charging. The next image can be shot only when charging is completed.**

Recording audio

1: Turn the camcorder on and set it to audio record mode.

2: Press the **SHUTTER** button to start recording.

3: Press the **SHUTTER** again to end the recording. If the memory is full the video camera will stop recording automatically.

- **On the center of the LCD monitor displays the recorded time.**
- **There is no menu in audio record mode.**

4.Using the menu in record mode

When a menu is displayed, the joystick is used to make the desired setting. The audio record mode doesn't have a menu.

Menu in capture mode

1: Turn on the camcorder and set it to capture

mode.

2: Press the **MENU** button to display the menu.

3: Move the joystick upward or downward to select an item.

4: Push the joystick rightward to enter the submenu.

5: Use the joystick to select the desired item.

6: Press the **OK** button to confirm the setting.

7: Press the **MENU** button to close the menu.

Capture menu list

Menu item	Function
Resolution	There are five options for choice: [12M]/[8M] /[5M]/[3M].
Quality	Select a lower image quality to decrease the image size in order to capture more images. There are three options for choice:[Super] /[Fine] /[Normal].
White Balance	Adjust the white balance to suit different light sources. There five items for option: [Auto]/[Daylight]/ [Cloudy] / [Fluorescent] / [Tungsten].

Color Effect	Set the color effect to add a color tone to the picture. [color]: Reflects the true color of the object. [Sepia]: Adds a sepia color tone to the picture. [Monochrome]: The pictures only have two colors: white and black.
Exposure	Set the exposure value manually to compensate for unusual lighting conditions such as indirect indoor lighting, dark backgrounds, and strong backlighting. The exposure value range is –2.0 to 2.0.
Date Stamp	This function can be used to add a date to your pictures as you take them. There are two items for option: [On]: Add the recording date & time to printed images. [Off]: Do not add the recording date & time to printed images.
Self Timer	Use the self-timer to set a delay from the time the shutter button is pressed to the time the image is shot. [Disable]/[10 SEC]/[20SEC].
Burst	Use this function to take 3 pictures continuously.

Snapshot	[Single]: Press the shutter button once to take one picture. [Burst]: Press the shutter button once to take three pictures continuously.

Menu in video mode

1: In video record mode press the **MENU** button to display the menu.

2: Move the joystick upward or downward to select an item.

3: Push the joystick rightward to enter the submenu.

4: Use the joystick upward or downward to select the desired item.

5: Press the **OK** button to confirm the setting.

6: Press the **MENU** button to close the menu.

Menu item	Function
Resolution	Select small movie size to record longer time. There are two items for option:[1280x720]/ [720x480].
Frame Rate	Select low frame rate to record longer time. There are

	two items for option: [30FPS]/[15FPS].
White Balance	See the details on page 20.
Audio	[Enable]: Voice is recorded when recording movie clip.. [Disable]: No voice is recorded when recording movie clips.

Setup menu

You can set the system items in setup menu.

1: Turn the power on and press the MENU button to display the menu.

2: Push the joystick rightward to select [Setup].

3: Move the joystick upward or downward to select an item.

4: Push the joystick rightward to enter the submenu.

5: Push the joystick upward or downward to select the desired item.

6: Press the **OK** button to confirm the setting.

7: Press the MENU button to close the menu.

Menu item	Function

Language	Select a language for the Display menu and other information from the following languages: **[English]**: English, **[Français]**: French, **[Deutsch]**:German, **[Italiano]**: Italian, **[Español]**: Spanish, **[Portuguãs]**: Portuguese. **[Nederlands]** : Dutch
Auto off	To save power, the camcorder is turned off automatically after a period of time. There are four options: [Disable] / [1Min] / [3Min]/[5 Min].
TV output	You can review images on a television with the supplied AV cable. TV Out should be set to either NTSC or PAL depending on your region. [NTSC]: America, Japan and others; [PAL]: Europe, Oceania and others.
Frequency	Light Frequency should be set to either 60Hz or 50Hz depending on your region. [50HZ] / [60HZ].
Date/Time	Refer to page 9.
Buzzer	Sets the operation sound on and off. [Enable] / [Disable]

Format	To erase all data stored on the memory card if you are using a memory card, or all data stored in the internal memory if there is no card inserted. All data will be deleted including protected files. Be sure to download important files to your computer before formatting. [Yes] / [No].
Default Settings	To reset the entire menu and button operation settings to initial default.
USB Mode	You can use this camera as a PC camera or removable disk. [PC Camera]:Use as a PC camera; [Mass storage]: Use as a removable disk.
Firmware version	This function will show the software version.

5.Playback

Playing back movie clips

1: Set the camcorder to playback mode.

2: Push the joystick leftward or rightward to select the movie clips you want to playback.

3: Press the **SHUTTER** button to start playing. Press the **OK** button to pause it and press it again to continue. Push the joystick rightward to fast forward and push the joystick leftward to back forward.

4: Push the joystick upward or downward to adjust the volume.

Playback still image

1: Set the camcorder to playback mode.

The latest recorded file appears on the LCD screen. If there are no images stored, a message [No Image] appears.

2: Push the joystick leftward or rightward to preview the previous or next image.

3: Zooming:

Press T button or W button to zoom in or zoom out the image. When the picture is enlarged press the SHUTTER button to lock the zoom ratio and then you can push the joystick upward/downward/Leftward/Rightward to browse the details of the image.

Playing back audio files

1: Set the camcorder to playback mode.

2: Push the joystick leftward or rightward to select the audio file you want to playback.

3: Press the **SHUTTER** button to start playing. Press the **SHUTTER** button to pause it and press it again to continue.

Other function in playback mode

Viewing Thumbnails

Press W button to view the file in thumbnails mode. Move the joystick upward/downward/leftward/rightward to select a file. Press T button to view

the file in full screen.

Delete files

If you want to delete a single file you have to select the file first and then press the **MENU** button to display the menu. Select “ Delete Current” or”Delete All”and then Push the joystick rightward to enter the submenu. Move the joystick leftward to select “Yes” and then press the **OK** button to delete the file or delete All files

Menu in playback mode

1: In playback mode press the **MENU** button to display the menu.

2: Move the joystick upward or downward to select an item.

3: Push the joystick rightward to enter the submenu.

4: Move the joystick upward or downward to select the desired item.

5: Press the **OK** button to confirm the setting.

6: Press the **MENU** button to close the menu.

Menu item	Function
Delete Current	Use this function to delete a single file. [Yes]/[No].
Delete All	Use this function to delete all files. [Yes]/[No].
Lock	Use this function to protect the files from being deleted by accident. [Lock Current]: Lock the current file. [Unlock Current]: Unlock the current file. [Lock all]: Lock all files. [Unlock All]: Unlock all files.
Thumbnail	View all files in thumbnail mode. [2x2]: The LCD screen display 4 files a page. [3x3]: The LCD screen display 9 files a page.
Rotate	Use this function to rotate the images. [90]:Rotate the image 90 degrees in clockwise. [180]: Rotate the image 180 degrees in clockwise. [270]: Rotate the image 270 degrees in clockwise.
Slide show	Play the files automatically.

	[On]: Select this item to start playing. [Setup]: Set the direction and Interval time of the slide show . [Direction]: [Backward] / [Forward]. [Interval]: [I Sec] / [10 Sec].
Print	Use this function to print the images.[Yes]/[No]

6. Making connections

Connecting the Camcorder to a TV

When plug in the TV-out cable (supplied) to the camcorder output jack the LCD screen turns black, Connect the camcorder to a TV and the TV screen now performs as the camcorder LCD screen.

1. Connect the camcorder to a TV via the TV-out cable (supplied) 。
2. Turn on the TV and the camcorder, and then set the TV to “AV” mode.
3. When the camcorder is set to record mode, you can preview the subjects you want to record on the TV screen.

4. When the camcorder is set to Playback mode, you can review all the pictures, video and audio clips stored in the camera on the TV.

Connecting the Camcorder to a HDTV

HD-TV hereby means the HDTV built-in component input ports, thus can perform HD (720P) high resolution quality while connected.

1. Connect the camcorder to HDTV by the HDMI-cable.
2. Power on HDTV and switch to HDMI-mode.
3. Power ON the camcorder. Set the camcorder in playback mode.

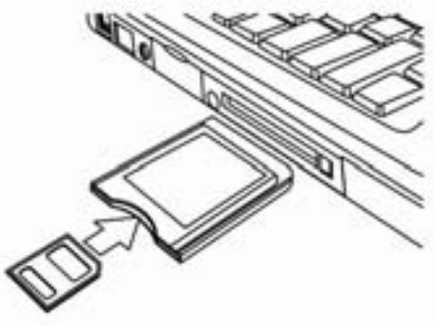
   Push the joystick leftward or rightward to select the file demanded.
4. Press SHUTTER button to “Play” the selected video file on HDTV, press it again to “Stop” the playing.
5. Press the OK button to “Pause”, press it again to “Continue” the playing.
6. Push the joystick leftward to reward, push the joystick rightward to forward.
7. Push the joystick upward or downward to adjust the volume.

Connecting the Camcorder to a PC

There are two ways to download files from the camcorder's internal memory or memory card to a computer:

- By inserting the memory card into a card reader
- By connecting the camera to a computer using the supplied USB cable.

Using a Card Reader



1: Eject the memory card from the camcorder and insert it into a card reader that is connected to a computer.

2: Open [My Computer] or [Windows Explorer] and double-click the removable disk icon that represents the memory card.

3: Copy images from the card into a directory of your choice on the computer’s hard disk.

Connecting the Camcorder to a PC with the USB Cable

1: Connect the supplied USB cable to the computer's USB port and turn on

the camcorder. A message “Mass storage” or “PC Camera” appears on the screen when connection to the computer has been successfully completed. Press the OK button to set the camcorder to “Mass storage” mode.

2: Open [My Computer] or [Windows Explorer]. A "Removable Disk" appears in the drive list. Double-click the "Removable Disk" icon to view its contents. Files stored on the camera are located in the folder named "DCIM".

3: Copy the photos or files to your computer.

7. Software Installation

Installing the Software

The bundled software CD has the drivers and software that come with video camera.

Insert the CD into your CD-ROM drive. The autorun menu appears:

The following software is listed:

• Install Driver: Installs software for PC camera

• Arcsoft Mediaimpression: Installs software for editing movie clips and photos.

Click the items in the autorun menu to install the software.

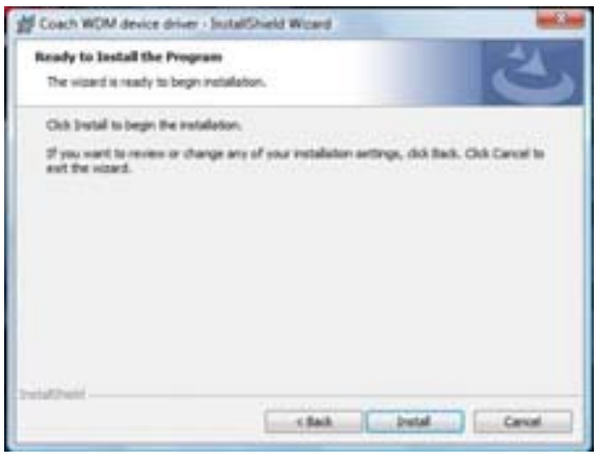
If the autorun menu does not appear automatically, open the CD-ROM in [My Computer] or [Windows Explorer] and double-click the file named [autorun.exe] to start the program. You can also click [Run] in the Windows Startup menu, enter "D:\autorun.exe" (where D is your CD-ROM drive letter) in the text box, and click [OK].

Install Driver

(1)Insert the CD to your PC,Click “Install Driver” to install the driver;

(2)Click “Next” and then click “Install” to install the driver;

Coach WDM device driver - InstallShield Wizard
Welcome to the InstallShield Wizard for Coach WDM device driver
The InstallShield(R) Wizard will install Coach WDM device driver on your computer. To continue, click Next.
WARNING: This program is protected by copyright law and international treaties.
< Back
Next >
Cancel


Coach WDM device driver - InstallShield Wizard
Ready to Install the Program
The wizard is ready to begin installation.
Click Install to begin the installation.
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
InstallShield
< Back
Install
Cancel

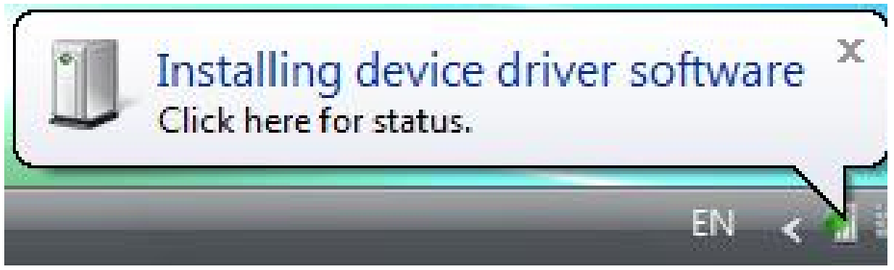
(3) Click “Finish” to complete the installation

Coach WDM device driver - InstallShield Wizard
InstallShield Wizard Completed
The wizard was interrupted before Coach WDM device driver could be completely installed.
Your system has not been modified. To install this program at a later time, please run the installation again.
Click Finish to exit the wizard.
< Back
Finish
Cancel

(4) Connect the camcorder to PC by the USB-cable,then Power on;

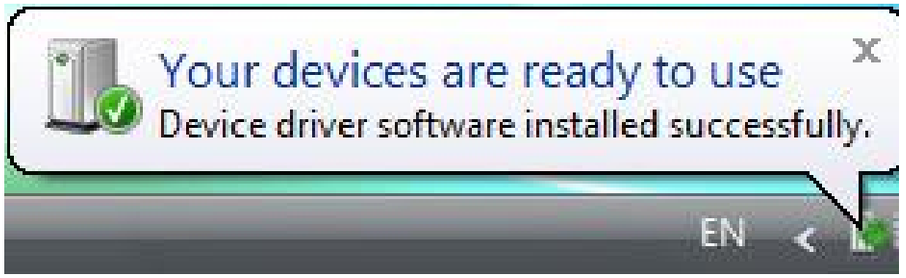
(5) Use the OK button to set the camcorder to [PC Camera] mode.

(6) An interface “Installing device driver software” appears;



(7) Select “Install the software automatically (Recommended)”;

(8) If “Your devices are ready to use” interface appears , The installation is finished and now you can use the PC-Camera function.



How to use the PC Camera function

1. Power ON, connect the camcorder with the PC by USB-cable.

2. Press the OK button to set the camcorder to PC Camera mode.

3. Double click the icon “My Computer” (on the PC-desktop).

4. Double click the icon
   Then you can start to use the PC-Camera function.

8. Troubleshooting

Power does not turn on.	
1.Battery is insufficient to power on.	★Recharge the battery.
The camcorder does not take pictures.	
1.Memory is full.	★Insert a new memory card.
2.Memory card is not formatted correctly.	★Format the memory card again

	or use a new card.
Image is blurry or out of focus.	
1.The camcorder was moving when the image was captured.	★ Hold the camcorder steady when shooting picture.
Image is not displayed on the LCD monitor.	
1.A memory card with non-PICT images (recorded with other camera) is loaded.	★This camcorder cannot display non-PICT images.
Recorded files are not saved in memory.	
1.The camcorder was turned off before the files are saved in memory.	★ If the battery low indicator appears on the LCD monitor, recharge the battery immediately.

9. Technical Specifications

Sensor	5 Mega Pixel CMOS;

Display	2.7” TFT Color LCD Display
Focus Range	200cm ~ infinity
Aperture	F3.1, Fixed Focus
Shutter	Electronic Shutter: 1/2 ~ 1/1800 sec.
File Format	Sill Image: JPEG (EXIF 2.2 compatible) Video: MP4 ; Audio: WAV
Resolution	Still Image: 1600x1200 (2M) / 2592x1944 (5M), 3400x2550(8M)by interpolation / 4032x3024 (12M) by interpolation; Video: 1280x720 HD / 640x480 / 320x240
Exposure Control	Auto
White Balance	Auto / Daylight / Tungsten / Fluorescent /
Self Timer	5 sec / 10 sec
Flash Mode	Flash off / Flash on / Flash auto
Storage Internal	32 MB
Storage External	SD / MMC
TV System	PAL / NTSC
Power Supply	Lithium Battery

Operating Temperature	0°C up to 40°C
Storage Temperature	-20°C up to +60°C
Microphone	Built-in
Speaker	included
Dimension	Camera Body: 122 x 61 x 28 mm
Weight	Camera Body w/o battery: approx. 85 g

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